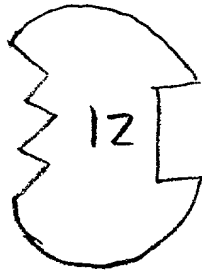
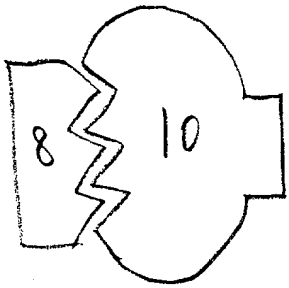
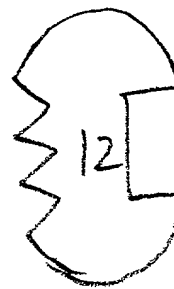
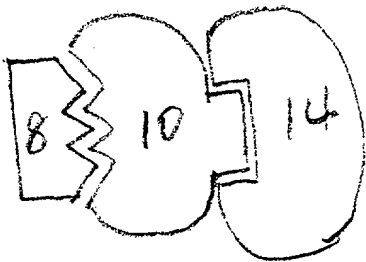
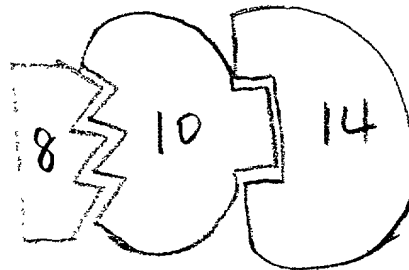
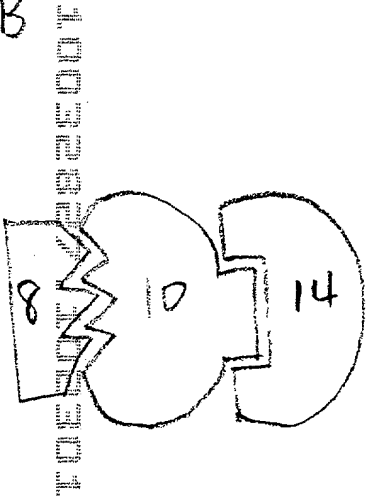


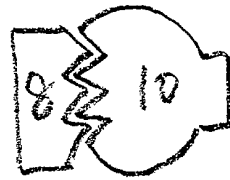
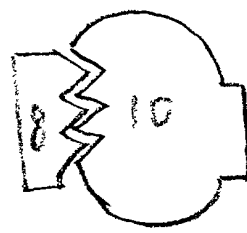
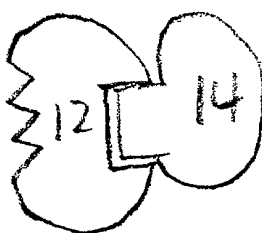
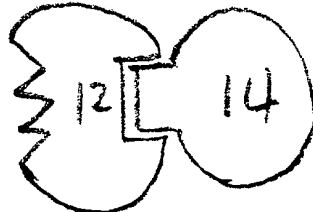
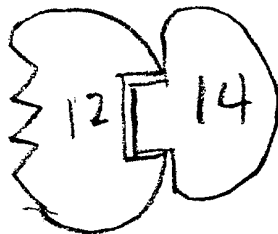
Fig 1A



1B



1C



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Insertion before arm

FIGURE 2

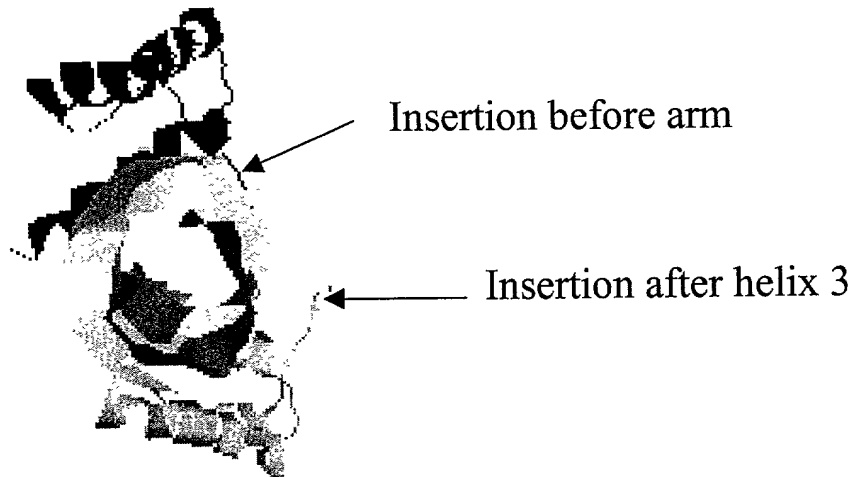


FIGURE 3

Figure 4: Crystal Structure of C-terminal domain of cI

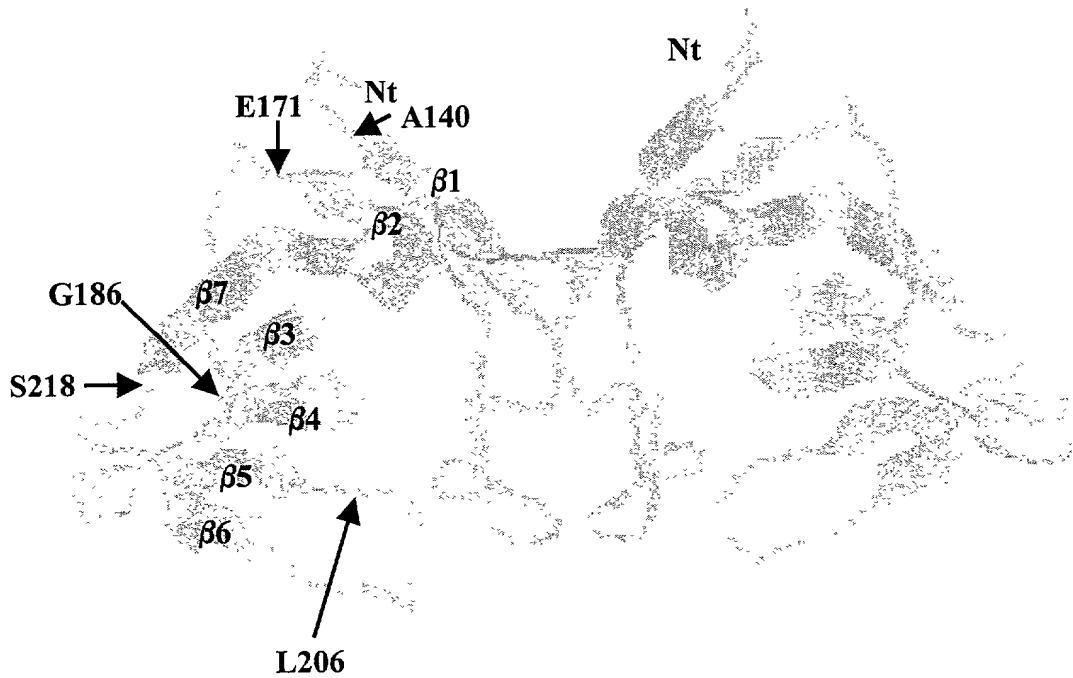
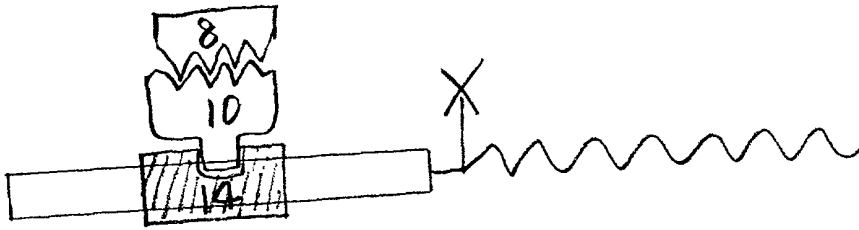
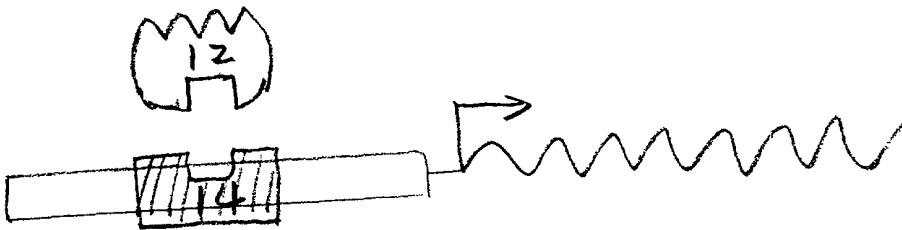


FIGURE 4

# simple binary switch



stimulus present



stimulus absent

 an active promoter

 repressor binding site


 reporter gene

FIGURE 5

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# Flip-Flop

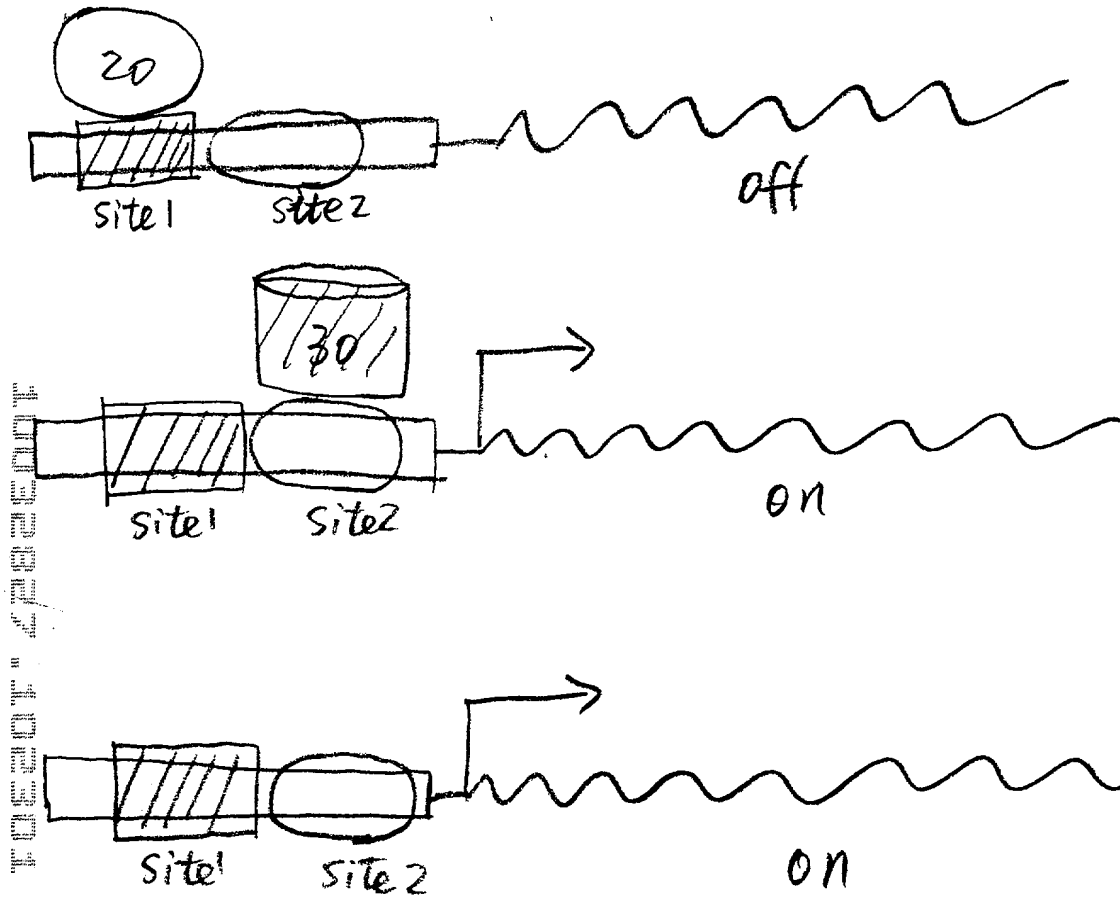
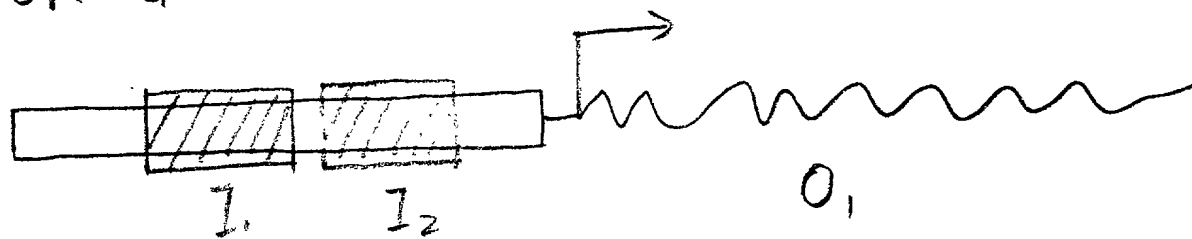
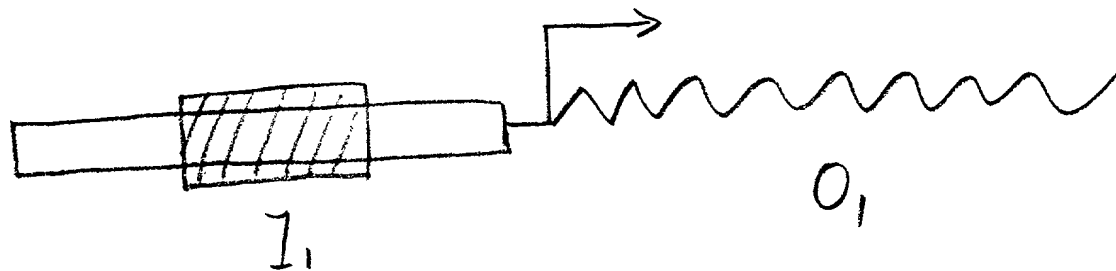


Figure 6

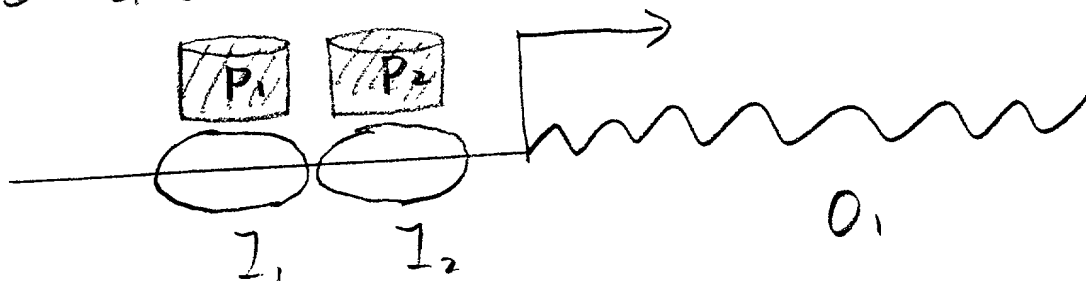
7A: NOR Gate:



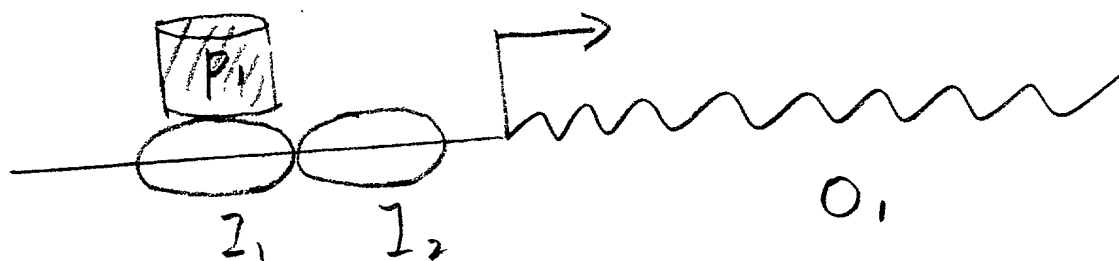
7B: NOT Gate:



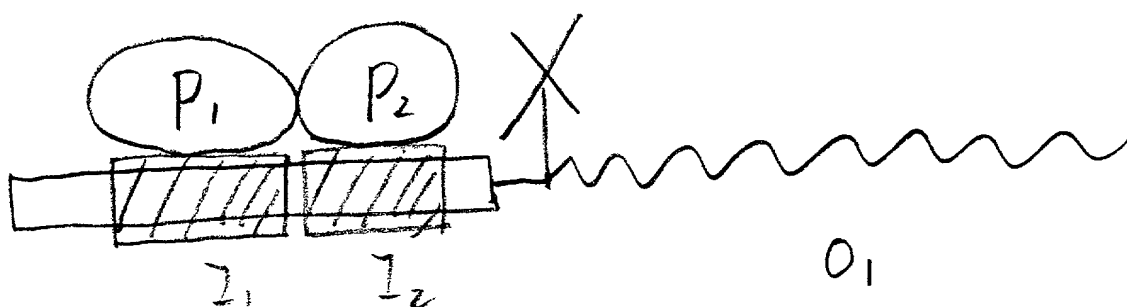
7C: AND Gate:



7D: OR Gate



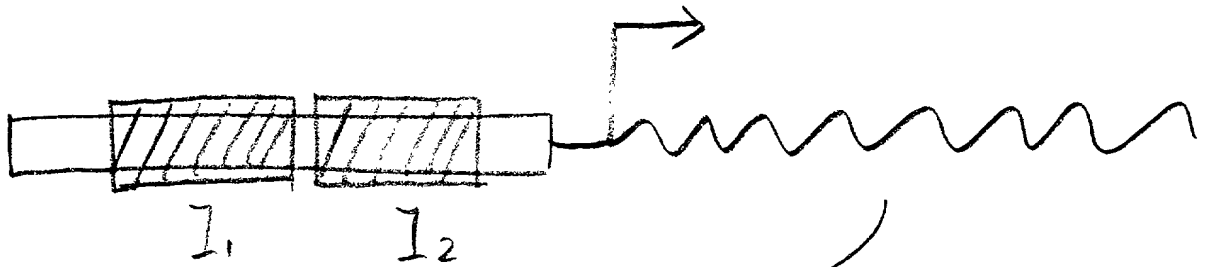
7E: NAND Gate



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Gate A (NOR)



Gate B (NOT)

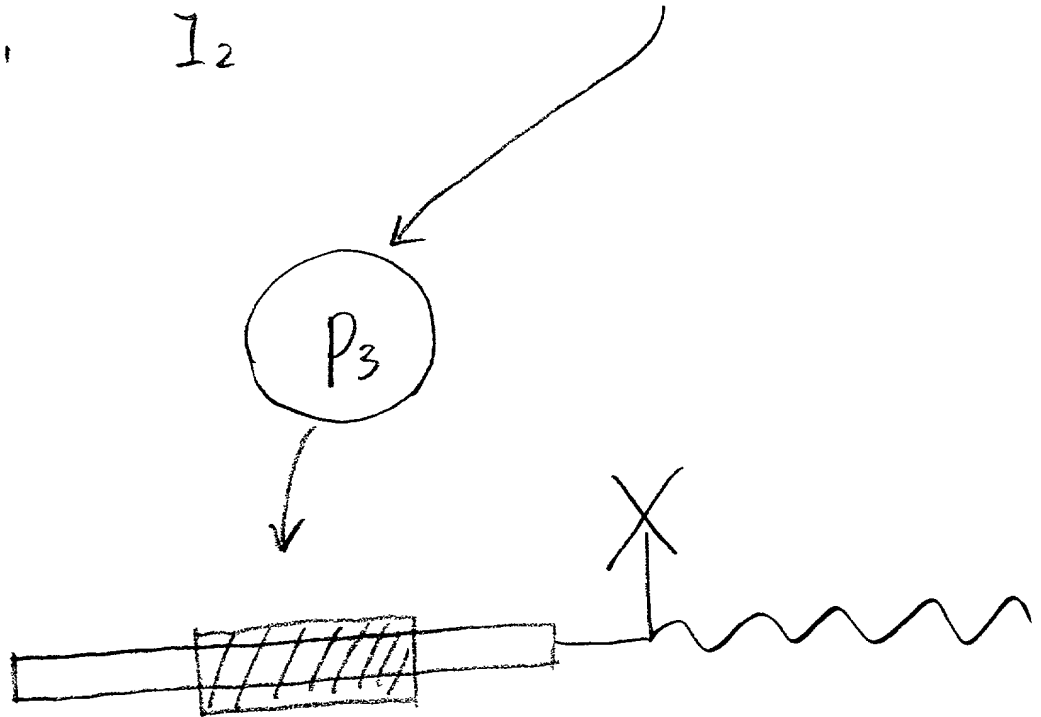


Figure 8

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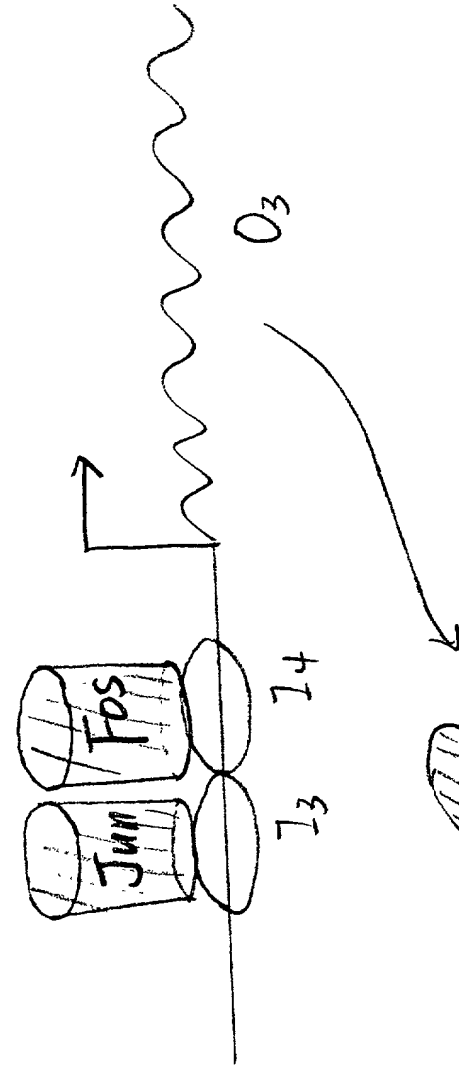
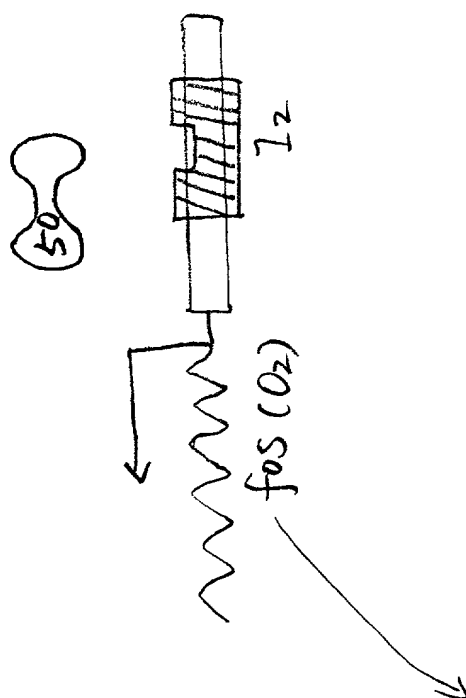
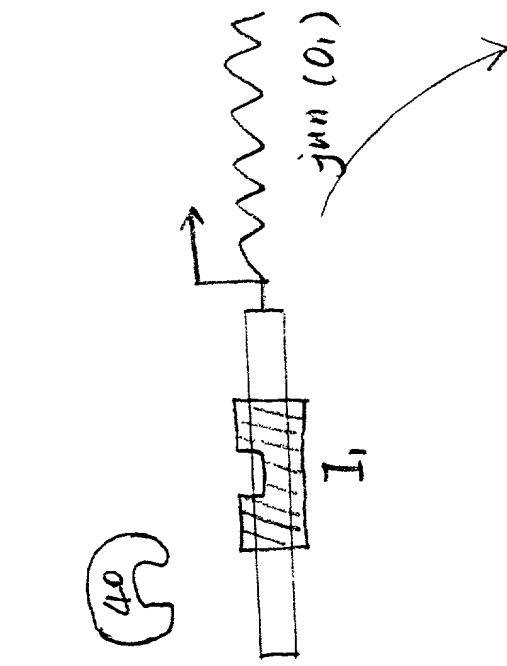
TECHNICAL FIELD

GATE A (NOT)

GATE B (NOT)

RADIATION

Heat



Enzyme

Detectable enzymatic activity

Figure 9

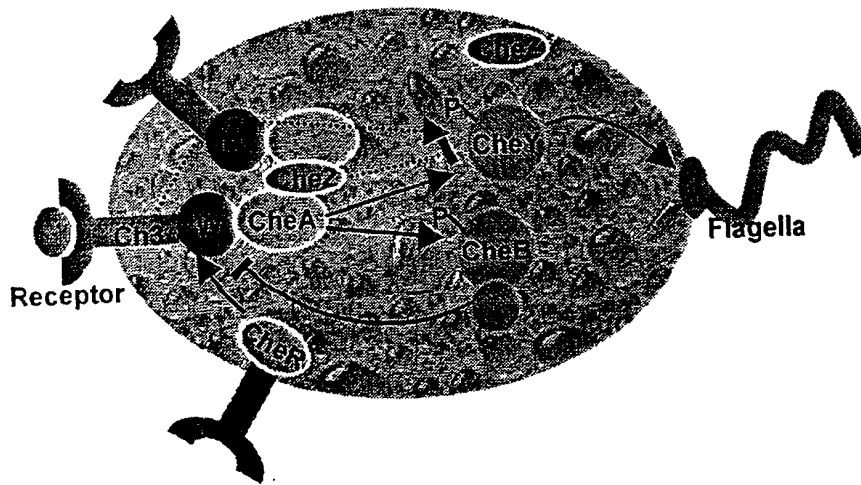


Figure 10